

Mr. James Saric
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Subject:
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies Monthly Progress Report
Area 1 – Morrow Dam to Plainwell Dam (February 2010)

SEDIMENTS

Dear Jim:

Attached is the 36th monthly progress report for the Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site Supplemental Remedial Investigation/Feasibility Study (SRI/FS) – Area 1. This progress report is submitted as per Paragraph 37 of the February 2007 Administrative Settlement Agreement and Order on Consent (AOC) for Remedial Investigations/Feasibility Studies (Docket No. V-W-07-C-864), as well as Section 7.1 of the associated Statement of Work (SOW). If you have any questions, please do not hesitate to contact me.

Date:
March 15, 2010

Sincerely,

Contact:
Michael J. Erickson, P.E.

ARCADIS


Phone:
810.225.1924

Michael J. Erickson, P.E.
Vice President

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MJE/plf
Attachment

Our ref:
B0064539.0000.00014
#2

Copies:
Michael Berkoff, USEPA
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Paul Bucholtz, MDNRE (with Attachment A)
Jeff Keiser, CH2M HILL (with Attachment A)
Todd Goeks, NOAA (with Attachment A)
Richard Gay, Weyerhaeuser Company
Martin Lebo, Weyerhaeuser Company
Kathy Huibregtse, RMT Inc. (with Attachment A)
J. Michael Davis, Esq., Georgia-Pacific LLC
Garry Griffith, P.E., Georgia-Pacific LLC
Paul Montney, P.E., Georgia-Pacific LLC

**MONTHLY PROGRESS REPORT FOR THE ALLIED PAPER, INC./PORTAGE CREEK/
KALAMAZOO RIVER SUPERFUND SITE SRI/FS
AREA 1 (MORROW DAM TO PLAINWELL DAM)**

REPORT #36, FEBRUARY 2010

**PREPARED BY ARCADIS U.S., INC.
MARCH 15, 2010**

ON BEHALF OF GEORGIA-PACIFIC LLC (GEORGIA-PACIFIC)

SUBMITTED TO

**JAMES SARIC, REMEDIAL PROJECT MANAGER
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (USEPA)**

**Monthly Progress Report for the Allied Paper, Inc./Portage Creek/
Kalamazoo River Superfund Site SRI/FS – Area 1**

REPORT #36, FEBRUARY 2010

Significant Developments and Activities during the Period, Including Actions Undertaken Pursuant to the AOC and SOW

- On February 15, ARCADIS submitted to USEPA the Semi-Annual Progress Report for the period from August 2009 through January 2010. This submittal is discussed in Section 7.2 of the SOW.
- On February 15, ARCADIS submitted to USEPA the Annual Area Work Report for Areas 2 through 7, as discussed in Section 1.1.1 of the SOW.
- On February 22, ARCADIS notified USEPA on the sediment core processing work that is scheduled for the week of March 1. The additional cores are contingent sediment cores from the hot spot evaluation in the Kalamazoo River and from the Crown Vantage Landfill.
- On February 25, USEPA forwarded to ARCADIS comments on the *Area 1 Work Plan Supplement: Baseline Ecological Risk Assessment Work Plan*. ARCADIS received comments from Michigan Department of Natural Resources and Environment (MDNRE) on February 26.
- Georgia-Pacific awaits USEPA's approval of the revised *Multi-Area FS Technical Memorandum – Evaluation of Candidate Technologies and Testing Needs* (Section 4.1 of SOW) and the revised *Multi-Area FS Technical Memorandum - Preliminary Remedial Technology Screening* (Section 1.2.2.1 of SOW) that were submitted on January 4.

Data Collected and Field Activities Conducted during the Period

- No data were collected and no field activities were performed in February 2010.

Laboratory Data Received during the Period

- On February 1 and 9, ARCADIS received from TestAmerica Laboratories, Inc. (TestAmerica) a portion of the PCB analytical results for the Crown Vantage investigation sediment samples (Sample Delivery Groups [SDGs] KAL502 and KAL504) (Table A).
- On February 1 and 15, ARCADIS received from TestAmerica the remainder of the PCB analytical results for the off-channel areas investigation sediment samples collected in December 2009 (SDGs KAL508 and KAL509) (Table B).
- On February 12, 15, 16, 17, and 24, ARCADIS received from TestAmerica the PCB analytical results for the off-channel areas investigation sediment samples collected in January 2010 (SDGs KAL510, KAL511, KAL514, KAL517, KAL521, and KAL522) (Table C).

**Monthly Progress Report for the Allied Paper, Inc./Portage Creek/
Kalamazoo River Superfund Site SRI/FS – Area 1**

REPORT #36, FEBRUARY 2010

- On February 25, ARCADIS received from TestAmerica a portion of the PCB analytical results for the filleted fish samples collected from locations throughout Areas 1 through 6 in October 2009 and forwarded to the lab in January 2010 (KAL513) (Table D).
- ARCADIS awaits the PCB results from TestAmerica for the remainder of the Crown Vantage investigation sediment samples (Table A) and for the remainder of the filleted fish samples collected from locations throughout Areas 1 through 6 in October 2009 and forwarded to the lab in January 2010 (Table D).
- Validated data for the laboratory SDGs received in December are included in this monthly report. These data include the remainder of the PCB analytical results for the surface sediment samples collected in October 2009 from Lake Allegan (Area 6) (SDGs KAL484 and KAL485) (Table E), the PCB analytical results for the Lake Allegan core sediment samples sent for PCB analysis on November 2, 2009 (SDGs KAL488 and KAL487) (Table F), the PCB analytical results for the hot spot assessment sediment samples that were collected in October and a portion that were collected in November 2009 (SDGs KAL485, KAL486, and KAL493) (Table G). In accordance with Section 2.1 of the SOW, paper and electronic copies of these laboratory data are included as part of the monthly progress reports. Attachment A contains the validation reports for these data packages. The enclosed compact disk also contains the electronic data deliverable for these data.

Problems

- None.

Actions Taken to Correct Problems

- None.

Developments Anticipated during the Next Two Reporting Periods

- Validated data for the laboratory SDGs received in January will be included in the March monthly report. These data include the remainder of the PCB analytical results for the hot spot assessment sediment samples that were collected in November 2009 (SDGs KAL489, KAL490, KAL491, KAL492, KAL494, KAL496, KAL 497, and KAL498), the PCB results from the 15 groundwater and two surface water samples collected in the former Plainwell Impoundment Time Critical Removal Action (TCRA) area in December (SDG KAL507), and the PCB results from a portion of the Crown Vantage investigation sediment samples (SDGs KAL499, KAL500, and KAL501).
- During the week of March 1, ARCADIS is scheduled to segment additional cores from the hot spot assessment and Crown Vantage landfill work, and submit samples to TestAmerica for PCB analysis.

**Monthly Progress Report for the Allied Paper, Inc./Portage Creek/
Kalamazoo River Superfund Site SRI/FS – Area 1**

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- During the weeks of March 8 and 15, ARCADIS is scheduled to monitor the groundwater and surface water elevations twice a week to confirm groundwater flow towards the river in the former Plainwell Impoundment TCRA Area for the quarterly sampling. This sampling is discussed in Section 3.4.6 of the Area 1 SRI/FS Work Plan.
- During the week of March 22, ARCADIS is scheduled to sample 15 wells and collect two surface water samples from the river in the former Plainwell Impoundment TCRA Area. It has been proposed to USEPA and MDNRE to discontinue groundwater sampling on the basis of four quarters of samples from 2009 which were all non-detect for PCBs; however, arrangements for the March 2010 sampling event are being made while discussions continue concerning this proposed discontinuation of sampling.
- By April 12, ARCADIS expects to revise and resubmit the *Area 1 Work Plan Supplement: Baseline Ecological Risk Assessment Work Plan*.

Georgia-Pacific LLC
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
Monthly Report #36, February 2010

Table A — Crown Vantage Area — Sediment Samples Collected in December 2009 — Status of Analytical Data

Location	Sample ID	Depth Interval (in)	SDG	Date SDG Received from Lab
CVT-H-2	K56703 ¹	18 - 29	KAL502	2/1/10
CVT-08-01	K56706	2 - 6	KAL502	2/1/10
	K56707	6 - 11	KAL502	2/1/10
	K56708	11 - 15	KAL502	2/1/10
	K56709	15 - 21	KAL502	2/1/10
CVT-08-03	K56710	0 - 2	KAL502	2/1/10
	K56711	2 - 6	KAL502	2/1/10
	K56712	6 - 12	KAL502	2/1/10
	K56713	12 - 18	KAL502	2/1/10
	K56714	18 - 24	KAL502	2/1/10
	K56715	24 - 27	KAL502	2/1/10
CVT-01-04	K56716	0 - 2	KAL502	2/1/10
	K56717	2 - 5	KAL502	2/1/10
	K56718	5 - 9	KAL502	2/1/10
CVT-03-03	K56719	0 - 2	KAL502	2/1/10
	K56720	2 - 6	KAL502	2/1/10
	K56721	6 - 9	KAL502	2/1/10
CVT-03-05	K56722	0 - 2	KAL502	2/1/10
	K56723	2 - 5	KAL502	2/1/10
	K56724	5 - 8	KAL502	2/1/10
	K56725 ¹ [K56726]	8 - 23	NR	NR
CVT-04-01	K56727	0 - 2	NR	NR
	K56728	2 - 6	NR	NR
	K56729	6 - 12	NR	NR
	K56730	12 - 19	NR	NR
CVT-04-03	K56731	0 - 2	NR	NR
	K56732	2 - 6	NR	NR
	K56733	6 - 9	NR	NR
	K56734	9 - 16	NR	NR
	K56735	16 - 19	NR	NR
CVT-05-03	K56736	0 - 2	NR	NR
	K56737	2 - 6	NR	NR
	K56738	6 - 12	NR	NR
	K56739	12 - 16	NR	NR
	K56740	16 - 21	NR	NR
CVT-05-05	K56741	0 - 2	NR	NR
	K56742	2 - 6	NR	NR
	K56743	6 - 12	NR	NR
	K56744 [K56745]	12 - 15	NR [KAL504]	NR [2/9/10]

Notes:

¹MS/MSD performed on this sample.

Duplicate samples are in brackets.

Samples sent to TestAmerica Laboratories, Inc. for PCB, TOC, and grain size analysis.

SDG - Sample delivery group.

NR - Not received by February 28, 2010.

Georgia-Pacific LLC
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
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Table B — Off-Channel Areas — Sediment Samples Collected in December 2009 and Received in February 2010

Transect	Location	Sample ID	Depth Interval (in)	Analysis	SDG	Date SDG Received from Lab
Area 14						
S-PC2-1	OCA14-01-01 (0+00)	K56805	0 - 2	PCB/TOC	KAL508	2/1/10
		K56806	2 - 6	PCB/TOC	KAL508	2/1/10
		K56807	6 - 9	PCB/TOC	KAL508	2/1/10
		K56808	9 - 11	PCB/TOC	KAL508	2/1/10
		K56809 ¹ [K56810]	11 - 22	PCB/TOC	KAL508 [KAL508]	2/1/10
S-PC2-2	OCA14-02-02 (0+10)	K56811	0 - 2	PCB/TOC	KAL508	2/1/10
		K56812	2 - 6	PCB/TOC/Grain Size	KAL508	2/1/10
		K56813	6 - 12	PCB/TOC/Grain Size	KAL508	2/1/10
		K56814	12 - 24	PCB/TOC/Grain Size	KAL508	2/1/10
		K56815	24 - 26	PCB/TOC	KAL508	2/1/10
S-PC2-7.0	OCA14-7-05 (0+46)	K56816	0 - 2	PCB/TOC/Grain Size	KAL508	2/1/10
		K56817	2 - 6	PCB/TOC/Grain Size	KAL508	2/1/10
		K56818	6 - 12	PCB/TOC/Grain Size	KAL508	2/1/10
		K56819	12 - 17	PCB/TOC/Grain Size	KAL508	2/1/10
		K56820	17 - 19	PCB/TOC/Grain Size	KAL508	2/1/10
S-PC2-6.0	OCA14-6.0-03 (0+30)	K56821	0 - 2	PCB/TOC/Grain Size	KAL508	2/1/10
		K56822	2 - 6	PCB/TOC/Grain Size	KAL509	2/15/10
		K56823	6 - 12	PCB/TOC/Grain Size	KAL509	2/15/10
		K56824 ¹ [K56825]	12 - 19	PCB/TOC/Grain Size	KAL509 [KAL509]	2/15/10
S-PC2-05	OCA14-05-04 (0+30)	K56826	0 - 2	PCB/TOC/Grain Size	KAL509	2/15/10
		K56827	2 - 6	PCB/TOC/Grain Size	KAL509	2/15/10
		K56828	6 - 12	PCB/TOC/Grain Size	KAL509	2/15/10
		K56829	12 - 15	PCB/TOC/Grain Size	KAL509	2/15/10
S-PC2-04	OCA14-04-03 (0+48)	K56830	0 - 2	PCB/TOC/Grain Size	KAL509	2/15/10
		K56831	2 - 6	PCB/TOC/Grain Size	KAL509	2/15/10
		K56832	6 - 12	PCB/TOC/Grain Size	KAL509	2/15/10
		K56833	12 - 23	PCB/TOC/Grain Size	KAL509	2/15/10

See Notes on Page 2.

Georgia-Pacific LLC
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
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Table B — Off-Channel Areas — Sediment Samples Collected in December 2009 and Received in February 2010

Transect	Location	Sample ID	Depth Interval (in)	Analysis	SDG	Date SDG Received from Lab
S-PC2-03	OCA14-03-02 (0+10)	K56834	0 - 2	PCB/TOC/Grain Size	KAL509	2/15/10
		K56835	2 - 6	PCB/TOC/Grain Size	KAL509	2/15/10
		K56836	6 - 12	PCB/TOC/Grain Size	KAL509	2/15/10
		K56837	12 - 21	PCB/TOC/Grain Size	KAL509	2/15/10

Notes:

¹MS/MSD performed on this sample.

Duplicate samples are in brackets.

Samples sent to TestAmerica Laboratories, Inc. for analysis.

SDG - Sample delivery group.

Georgia-Pacific LLC
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
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Table C — Off-Channel Areas — Status of Sediment Samples Collected in January 2010

Transect	Location	Sample ID	Depth Interval (in)	SDG	Date SDG Received from Lab
Area 1					
S-IS1-1	OCA1-1-5 (0+30)	K56838	0 - 2	KAL510	2/15/10
		K56839	2 - 6	KAL510	2/15/10
		K56840	6 - 12	KAL510	2/15/10
		K56841	12 - 19	KAL510	2/15/10
S-IS1-2	OCA1-2-3 (0+44)	K56842	0 - 2	KAL510	2/15/10
		K56843	2 - 6	KAL510	2/15/10
		K56844	6 - 9	KAL510	2/15/10
S-IS1-3	OCA1-3-4 (0+62)	K56845	0 - 2	KAL510	2/15/10
		K56846	2 - 6	KAL510	2/15/10
		K56847	6 - 16	KAL510	2/15/10
		K56848	16 - 19	KAL510	2/15/10
S-IS1-4	OCA1-4-4 (0+22)	K56849	0 - 2	KAL510	2/15/10
		K56850	2 - 8	KAL510	2/15/10
		K56851	8 - 12	KAL510	2/15/10
		K56852 ¹ [K56853]	12 - 26	KAL510 [KAL510]	2/15/10
S-IS1-5	OCA1-5-3 (0+36)	K56854	0 - 2	KAL510	2/15/10
		K56855	2 - 6	KAL510	2/15/10
		K56856	6 - 9	KAL510	2/15/10
		K56857	9 - 13	KAL510	2/15/10
		K56858	13 - 24	KAL511	2/15/10
S-IS1-6	OCA1-6-5 (0+44)	K56859	0 - 2	KAL511	2/15/10
		K56860	2 - 6	KAL511	2/15/10
		K56861	6 - 12	KAL511	2/15/10
		K56862	12 - 16	KAL511	2/15/10
		K56863	16 - 22	KAL511	2/15/10
		K56864 ¹ [K56866]	22 - 29	KAL511 [KAL511]	2/15/10
S-IS1-7	OCA1-7-3 (0+20)	K56865	29 - 33	KAL511	2/15/10
		K56867	0 - 2	KAL511	2/15/10
		K56868	2 - 6	KAL511	2/15/10
		K56869	6 - 12	KAL511	2/15/10
		K56870	12 - 18	KAL511	2/15/10
Area 5					
S-IL1-1	OCA5-1-5 (0+89)	K56889	0 - 2	KAL517	2/12/10
		K56890 ¹ [K56891]	2 - 7	KAL517 [KAL517]	2/12/10
S-IL1-2	OCA5-2-1 (0+00)	K56892	0 - 2	KAL517	2/12/10
		K56893	2 - 8	KAL517	2/12/10
S-IL1-3	OCA5-3-1 (0+00)	K56894	0 - 2	KAL517	2/12/10
		K56895	2 - 6	KAL517	2/12/10
		K56896	6 - 9	KAL517	2/12/10
		K56897	9 - 18	KAL517	2/12/10

See Notes on Page 3.

Georgia-Pacific LLC
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
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Table C — Off-Channel Areas — Status of Sediment Samples Collected in January 2010

Transect	Location	Sample ID	Depth Interval (in)	SDG	Date SDG Received from Lab
S-IL1-4	OCA5-4-3 (1+00)	K56871	0 - 2	KAL514	2/16/10
		K56872	2 - 7	KAL514	2/16/10
		K56873	7 - 11	KAL514	2/16/10
		K56874	11 - 12	KAL514	2/16/10
S-IL1-5	OCA5-5-3 (0+26)	K56875	0 - 2	KAL514	2/16/10
		K56876	2 - 6	KAL514	2/16/10
		K56877	6 - 9	KAL514	2/16/10
		K56878	9 - 12	KAL514	2/16/10
S-IL1-6	OCA5-6-4 (0+35)	K56879	0 - 2	KAL514	2/16/10
		K56880	2 - 6	KAL514	2/16/10
		K56881 [K56884]	6 - 12	KAL514	2/16/10
		K56882	12 - 14	KAL514	2/16/10
		K56883 ¹	14 - 22	KAL514	2/16/10
S-IL1-7	OCA5-7-4 (0+15)	K56885	0 - 2	KAL517	2/12/10
		K56886	2 - 6	KAL517	2/12/10
		K56887	6 - 15	KAL517	2/12/10
		K56888	15 - 20	KAL517	2/12/10
Area 10					
S-PC1A-1	OCA10-1-4 (1+05)	K56898	0 - 2	KAL521	2/17/10
		K56899	2 - 8	KAL521	2/17/10
		K56900	8 - 16	KAL521	2/17/10
S-PC1A-2	OCA10-2-1 (0+00)	K56901	0 - 2	KAL521	2/17/10
		K56902	2 - 6	KAL521	2/17/10
		K56903	6 - 9	KAL521	2/17/10
S-PC1A-3	OCA10-3-4 (0+50)	K56904	0 - 2	KAL521	2/17/10
		K56905	2 - 6	KAL521	2/17/10
		K56906	6 - 12	KAL521	2/17/10
		K56907	12 - 15	KAL521	2/17/10
		K56908	15 - 18	KAL521	2/17/10
		K56909	18 - 21	KAL521	2/17/10
S-PC1B-1	OCA10-B1-5 (0+46)	K56914	0 - 2	KAL521	2/17/10
		K56915	2 - 6	KAL521	2/17/10
		K56916	6 - 12	KAL521	2/17/10
		K56917 ¹ [K56918]	12 - 22	KAL521 [KAL522]	2/17/10 [2/24/10]
S-PC1C-1	OCA10-C1-1 (0+00)	K56910	0 - 2	KAL521	2/17/10
		K56911	2 - 6	KAL521	2/17/10
		K56912	6 - 12	KAL521	2/17/10
		K56913	12 - 20	KAL521	2/17/10
S-PC1C-2	OCA10-C2-5 (0+63)	K56923	0 - 2	KAL522	2/24/10
		K56924	2 - 6	KAL522	2/24/10
		K56925	6 - 10	KAL522	2/24/10

See Notes on Page 3.

Georgia-Pacific LLC
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
Monthly Report #36, February 2010

Table C — Off-Channel Areas — Status of Sediment Samples Collected in January 2010

Transect	Location	Sample ID	Depth Interval (in)	SDG	Date SDG Received from Lab
S-PC1C-3	OCA10-C3-1 (0+00)	K56919	0 - 2	KAL522	2/24/10
		K56920	2 - 6	KAL522	2/24/10
		K56921 ¹	6 - 12	KAL522	2/24/10
		K56922	12 - 14	KAL522	2/24/10
S-PC1C-4	OCA10-C4-4 (0+40)	K56926	0 - 2	KAL522	2/24/10
		K56927	2 - 6	KAL522	2/24/10
		K56928	6 - 9	KAL522	2/24/10
		K56929	9 - 12	KAL522	2/24/10
		K56930	12 - 16	KAL522	2/24/10

Notes:

¹MS/MSD performed on this sample.

Duplicate samples are in brackets.

Samples sent to TestAmerica Laboratories, Inc. for PCB, TOC, and grain size analysis.

SDG - Sample delivery group.

Georgia-Pacific LLC
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
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Table D — Status of Fish Samples Filleted in January 2010

Location	ABSA	Species	Sample ID	SDG	Date SDG Received from Lab
Morrow Lake	ABSA 2	Smallmouth Bass	K41060	NR	NR
			K41061	NR	NR
			K41062	NR	NR
			K41063	NR	NR
			K41357	NR	NR
			K41358	NR	NR
			K41359	NR	NR
			K41360	NR	NR
			K41361	NR	NR
			K41362	NR	NR
Near D Ave	ABSA 4	Smallmouth Bass	K41146	NR	NR
			K41147	NR	NR
			K41148	NR	NR
			K41149	NR	NR
			K41150	NR	NR
			K41151	NR	NR
			K41152	NR	NR
			K41153	NR	NR
			K41154	NR	NR
			K41155	NR	NR
		Common Carp	K41156	NR	NR
			K41157	NR	NR
			K41158	NR	NR
			K41159	NR	NR
			K41160	NR	NR
			K41161	NR	NR
			K41162	NR	NR
			K41163	NR	NR
			K41164	NR	NR
			K41165	NR	NR
		Pumpkinseed	K41166	NR	NR
			K41167	NR	NR
			K41136	NR	NR
			K41137	NR	NR
			K41138	NR	NR
			K41140	NR	NR

See Notes on Page 6.

Georgia-Pacific LLC
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
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Table D — Status of Fish Samples Filleted in January 2010

Location	ABSA	Species	Sample ID	SDG	Date SDG Received from Lab
Near D Ave (Cont.)	ABSA 4 (Cont.)	Pumpkinseed (Cont.)	K41143	NR	NR
			K41144	NR	NR
			K41277	NR	NR
			K41278	NR	NR
			K41279	NR	NR
		Rock Bass	K41125	NR	NR
			K41127	NR	NR
			K41128	NR	NR
			K41129	NR	NR
			K41131	NR	NR
			K41132	NR	NR
			K41133	NR	NR
			K41134	NR	NR
			K41274	NR	NR
			K41275	NR	NR
		Black Bullhead	K41170	NR	NR
			K41273	NR	NR
		Brown Bullhead	K41171	NR	NR
			K41265	NR	NR
			K41266	NR	NR
			K41267	NR	NR
			K41270	NR	NR
		Yellow Bullhead	K41268	NR	NR
			K41269	NR	NR
			K41271	NR	NR
			K41272	NR	NR
Otsego City Dam	ABSA 6	Smallmouth Bass	K41313	NR	NR
			K41314	NR	NR
			K41315	NR	NR
			K41316	NR	NR
			K41317	NR	NR
			K41318	NR	NR
			K41319	NR	NR
			K41320	NR	NR
			K41321	NR	NR
			K41322	NR	NR
			K41323	NR	NR
		Common Carp	K41280	NR	NR
			K41281	NR	NR
			K41282	NR	NR
			K41283	NR	NR
			K41284	NR	NR
			K41285	NR	NR

See Notes on Page 6.

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Table D — Status of Fish Samples Filleted in January 2010

Location	ABSA	Species	Sample ID	SDG	Date SDG Received from Lab
Otsego City Dam (Cont.)	ABSA 6 (Cont.)	Bluegill	K41302	NR	NR
			K41303	NR	NR
			K41304	NR	NR
			K41305	NR	NR
			K41306	NR	NR
			K41307	NR	NR
			K41308	NR	NR
			K41309	NR	NR
			K41310	NR	NR
			K41311	NR	NR
			K41312	NR	NR
		Rock Bass	K41291	NR	NR
			K41292	NR	NR
			K41293	NR	NR
			K41294	NR	NR
			K41295	NR	NR
			K41296	NR	NR
			K41297	NR	NR
			K41298	NR	NR
			K41299	NR	NR
			K41300	NR	NR
		Black Bullhead	K41301	NR	NR
			K41334	NR	NR
		Brown Bullhead	K41326	NR	NR
			K41328	NR	NR
			K41329	NR	NR
			K41330	NR	NR
			K41331	NR	NR
		Yellow Bullhead	K41324	NR	NR
			K41325	NR	NR
			K41327	NR	NR
			K41332	NR	NR
			K41333	NR	NR
			K41342	NR	NR
Otsego Dam	ABSA 7	Smallmouth Bass	K41343	NR	NR
			K41344	NR	NR
			K41345	NR	NR
			K41346	NR	NR
			K41347	NR	NR
			K41348	NR	NR
			K41349	NR	NR
			K41350	NR	NR
			K41351	NR	NR
			K41352	NR	NR
		Common Carp	K41335	NR	NR
			K41336	NR	NR
			K41337	NR	NR
			K41338	NR	NR
		Common Carp	K41339	NR	NR
			K41340	NR	NR

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Table D — Status of Fish Samples Filleted in January 2010

Location	ABSA	Species	Sample ID	SDG	Date SDG Received from Lab
Otsego Dam (Cont.)	ABSA 7 (Cont.)	Common Carp (Cont.)	K41341	NR	NR
			K41353	NR	NR
			K41354	NR	NR
			K41355	NR	NR
			K41356	NR	NR
Trowbridge	ABSA 8	Smallmouth Bass	K41082	NR	NR
			K41083	NR	NR
			K41084	NR	NR
			K41085	NR	NR
			K41109	KAL513	2/25/10
			K41110	KAL513	2/25/10
			K41111	NR	NR
			K41112	NR	NR
			K41113	NR	NR
			K41114	NR	NR
		Common Carp	K41364	NR	NR
			K41086	NR	NR
			K41087	KAL513	2/25/10
			K41088	KAL513	2/25/10
			K41089	KAL513	2/25/10
			K41090	KAL513	2/25/10
			K41091	KAL513	2/25/10
			K41092	KAL513	2/25/10
			K41093	KAL513	2/25/10
			K41094	KAL513	2/25/10
		Bluegill	K41095 ¹	KAL513	2/25/10
			K41096	KAL513	2/25/10
			K41115	NR	NR
			K41252	NR	NR
			K41253	NR	NR
			K41254	NR	NR
			K41255	NR	NR
			K41256	NR	NR
			K41257	NR	NR
			K41258	NR	NR
		Rock Bass	K41259	NR	NR
			K41368	NR	NR
			K41369	NR	NR
			K41097	KAL513	2/25/10
			K41099	KAL513	2/25/10
			K41100	KAL513	2/25/10
			K41101	KAL513	2/25/10
			K41102	KAL513	2/25/10
			K41104	KAL513	2/25/10
			K41105	KAL513	2/25/10
			K41106	KAL513	2/25/10
		Brown Bullhead	K41365	NR	NR
			K41366	NR	NR
			K41367	NR	NR
		Brown Bullhead	K41263	NR	NR

See Notes on Page 6.

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Table D — Status of Fish Samples Filleted in January 2010

Location	ABSA	Species	Sample ID	SDG	Date SDG Received from Lab
Trowbridge (Cont.)	ABSA 8 (Cont.)	Yellow Bullhead	K41116	NR	NR
			K41117	NR	NR
			K41118	NR	NR
			K41119	NR	NR
			K41247	NR	NR
			K41264	NR	NR
			K41370	NR	NR
			K41371	NR	NR
			K41372	NR	NR
			K41373	NR	NR
City of Allegan	--	Smallmouth Bass	K41183	NR	NR
			K41184	NR	NR
			K41185	NR	NR
			K41186	NR	NR
			K41187	NR	NR
			K41188	NR	NR
			K41189	NR	NR
			K41190	NR	NR
			K41191	NR	NR
			K41192	NR	NR
		Common Carp	K41193	NR	NR
			K41172	NR	NR
			K41173	NR	NR
			K41174	NR	NR
			K41175	NR	NR
			K41176	NR	NR
			K41177	NR	NR
			K41178	NR	NR
			K41179	NR	NR
Lake Allegan	ABSA 9	Smallmouth Bass	K41180	NR	NR
			K41181	NR	NR
			K41182	NR	NR
			K41194	NR	NR
			K41195	NR	NR
			K41196	NR	NR
			K41197	NR	NR
			K41198	NR	NR
			K41199	NR	NR
			K41200	NR	NR
		Common Carp	K41201	NR	NR
			K41202	NR	NR
			K41203	NR	NR
			K41204	NR	NR
			K41205	NR	NR
			K41206	NR	NR
			K41207	NR	NR
			K41208	NR	NR
			K41209	NR	NR
			K41210	NR	NR
			K41211	NR	NR

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Table D — Status of Fish Samples Filleted in January 2010

Location	ABSA	Species	Sample ID	SDG	Date SDG Received from Lab
Lake Allegan (Cont.)	ABSA 9 (Cont.)	Common Carp (Cont.)	K41212	NR	NR
			K41213	NR	NR
			K41214	NR	NR
			K41215	NR	NR
		Green Sunfish	K41234	NR	NR
			K41235	NR	NR
			K41236	NR	NR
			K41237	NR	NR
			K41238	NR	NR
			K41239	NR	NR
			K41240	NR	NR
			K41241	NR	NR
			K41242	NR	NR
			K41243	NR	NR
			K41244	NR	NR
		Rock Bass	K41227	NR	NR
			K41228	NR	NR
			K41229	NR	NR
			K41230	NR	NR
			K41231	NR	NR
			K41232	NR	NR
			K41233	NR	NR
			K41248	NR	NR
			K41249	NR	NR
			K41250	NR	NR
		Channel Catfish	K41251	NR	NR
			K41216	NR	NR
			K41217	NR	NR
			K41218	NR	NR
			K41219	NR	NR
			K41220	NR	NR
			K41221	NR	NR
			K41222	NR	NR
			K41223	NR	NR
			K41224	NR	NR
			K41225	NR	NR
			K41226	NR	NR

Notes:

These samples were collected in October 2009, and filleted and forwarded to TestAmerica in January 2010.

¹MS/MSD performed on this sample.

NR - Not received as of February 28, 2010.

SDG - Sample delivery group.

Samples sent to TestAmerica Laboratories, Inc. for PCB and percent lipid analysis.

Georgia-Pacific LLC
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Table E — Validated PCB Results for Surface Sediment Samples Collected in Lake Allegan — Data Received by ARCADIS in December 2009

Sample Name: Sample Depth(in): Date Collected: Location ID:	Units	K56419 0 - 2 10/27/09 SPI-20	K56420 0 - 2 10/28/09 SPI-21	K56421 0 - 2 10/28/09 SPI-22	K56422 0 - 2 10/28/09 SPI-23	K56423 0 - 2 10/28/09 SPI-24	K56424 0 - 2 10/28/09 SPI-25	K56425 0 - 2 10/28/09 SPI-26	K56426 0 - 2 10/28/09 SPI-27	K56427 0 - 2 10/28/09 SPI-28	K56428 0 - 2 10/28/09 SPI-29	K56429 0 - 2 10/28/09 SPI-30	K56430 0 - 2 10/28/09 SPI-31
PCB Aroclors													
Aroclor-1016	mg/kg	0.19 U	0.18 U	0.19 U	0.16 U	0.20 U	0.17 U	0.21 U	0.22 U	0.16 U	0.18 U	0.093 U	0.076 U
Aroclor-1221	mg/kg	0.19 U	0.18 U	0.19 U	0.16 U	0.20 U	0.17 U	0.21 U	0.22 U	0.16 U	0.18 U	0.093 U	0.076 U
Aroclor-1232	mg/kg	0.19 U	0.18 U	0.19 U	0.16 U	0.20 U	0.17 U	0.21 U	0.22 U	0.16 U	0.18 U	0.093 U	0.076 U
Aroclor-1242	mg/kg	0.49	0.93	0.99	0.96	1.2	0.89	1.2	1.0	0.89	1.3	0.75	0.21
Aroclor-1248	mg/kg	0.25	0.18 U	0.19 U	0.16 U	0.20 U	0.17 U	0.21 U	0.22 U	0.16 U	0.18 U	0.093 U	0.076 U
Aroclor-1254	mg/kg	0.23	0.23	0.22	0.22	0.28	0.20	0.29	0.28	0.28	0.33	0.17	0.054 J
Aroclor-1260	mg/kg	0.19 U	0.18 U	0.19 U	0.16 U	0.20 U	0.17 U	0.21 U	0.22 U	0.16 U	0.18 U	0.052 J	0.076 U
Total PCBs	mg/kg	0.97	1.2	1.2	1.2	1.5	1.1	1.5	1.3	1.2	1.6	0.97	0.26
Miscellaneous													
Percent Solids	%	27	27.7	26	31.4	24.8	29.4	23.2	21.8	31.3	26.5	51.2	63.3
TOC													
Total Organic Carbon	mg/kg	58500	64700	63600	71100	74400	57000	83800	64500	75800	73900	35400	34800 J
Grain Size Analysis													
Gravel	%	0	0	0	0	0	0	0	0	0	0	0	0.7
Coarse Sand	%	0	0	0	0.2	0	0	0	0	3.4	0	0.4	0.4
Medium Sand	%	0.4	0.3	0.4	1.2	0.4	0.3	1.9	0.1	4.4	0.8	1.7	8.5
Fine Sand	%	6	10.3	1.8	10.3	2.6	1.3	6.9	0.9	19.2	4.5	63.7	71.9
Silt	%	78.3	72.3	80.8	78.3	82.8	86.1	80.8	80.1	72.9	84.5	31.3	16.8
Clay	%	15.3	17.1	17	10	14.1	12.3	10.4	18.9	0	10	2.8	1.7
Grain Size Analysis - % passing (particle size, um)													
Sieve, 3 inch	% passing	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)
Sieve, 2 inch	% passing	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)
Sieve, 1.5 inch	% passing	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)
Sieve, 1 inch	% passing	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)
Sieve, 3/4 inch	% passing	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)
Sieve, 3/8 inch	% passing	100 (9500)	100 (9500)	100 (9500)	100 (9500)	100 (9500)	100 (9500)	100 (9500)	100 (9500)	100 (9500)	100 (9500)	100 (9500)	100 (9500)
Sieve, #4	% passing	100 (4750)	100 (4750)	100 (4750)	100 (4750)	100 (4750)	100 (4750)	100 (4750)	100 (4750)	100 (4750)	100 (4750)	100 (4750)	99.3 (4750)
Sieve, #10	% passing	100 (2000)	100 (2000)	100 (2000)	99.8 (2000)	100 (2000)	100 (2000)	100 (2000)	100 (2000)	96.6 (2000)	100 (2000)	99.6 (2000)	98.8 (2000)
Sieve, #20	% passing	99.9 (850)	99.9 (850)	99.9 (850)	99.7 (850)	99.9 (850)	99.9 (850)	99.7 (850)	100 (850)	94.6 (850)	99.9 (850)	99 (850)	94.5 (850)
Sieve, #40	% passing	99.6 (425)	99.7 (425)	99.6 (425)	98.6 (425)	99.6 (425)	99.7 (425)	98.1 (425)	99.9 (425)	92.2 (425)	99.1 (425)	97.9 (425)	90.3 (425)
Sieve, #60	% passing	99.3 (250)	99.1 (250)	99.4 (250)	97.1 (250)	99.3 (250)	99.5 (250)	96 (250)	99.7 (250)	90.2 (250)	98.4 (250)	96.3 (250)	83.6 (250)
Sieve, #80	% passing	98.9 (180)	97.4 (180)	99.2 (180)	95.8 (180)	99 (180)	99.4 (180)	94.6 (180)	99.7 (180)	89 (180)	97.8 (180)	92.5 (180)	69.1 (180)
Sieve, #100	% passing	98.6 (150)	95.6 (150)	99 (150)	95 (150)	98.8 (150)	99.3 (150)	93.8 (150)	99.6 (150)	88.4 (150)	97.5 (150)	89.5 (150)	51.1 (150)
Sieve, #200	% passing	93.6 (75)	89.4 (75)	97.8 (75)	88.3 (75)	97 (75)	98.4 (75)	91.2 (75)	99 (75)	72.9 (75)	94.6 (75)	34.2 (75)	18.5 (75)
Hydrometer Reading 1	% passing	56.8 (33)	70.9 (33)	67.8 (33)	35.1 (34)	68.6 (32)	69.8 (32)	62.4 (34)	83.9 (32)	28.2 (37)	52.2 (33)	8.5 (36)	6.6 (37)
Hydrometer Reading 2	% passing	41.5 (22)	46.4 (22)	46 (22)	23.4 (22)	36.3 (22)	36.9 (22)	41.6 (22)	51.4 (22)	14.1 (24)	30.1 (22)	6.6 (23)	5.8 (23)
Hydrometer Reading 3	% passing	28.4 (13)	34.2 (13)	31.5 (13)	18.4 (13.2)	26.2 (13)	26.7 (13)	28.6 (13.2)	40.6 (12.9)	14.1 (13.7)	20.1 (13.2)	4.7 (13.5)	4.1 (13.5)
Hydrometer Reading 4	% passing	21.8 (9.3)	24.4 (9.3)	24.2 (9.5)	15.1 (9.5)	20.2 (9.2)	18.5 (9.2)	18.2 (9.3)	27.1 (9)	7.1 (9.7)	14 (9.5)	3.8 (9.6)	2.5 (9.5)
Hydrometer Reading 5	% passing	15.3 (6.8)	17.1 (6.8)	17 (6.8)	10 (6.6)	14.1 (6.7)	12.3 (6.8)	10.4 (6.8)	18.9 (6.7)	0 (6.7)	10 (6.9)	2.8 (6.7)	1.7 (7)
Hydrometer Reading 6	% passing	6.6 (3.3)	7.3 (3.3)	7.3 (3.3)	6.7 (3.3)	8.1 (3.4)	6.2 (3.5)	5.2 (3.3)	8.1 (3.3)	-7.1 (3.4)	4 (3.4)	0.9 (3.4)	0.8 (3.5)
Hydrometer Reading 7	% passing	4.4 (1.4)	2.4 (1.4)	2.4 (1.4)	3.3 (1.4)	4 (1.4)	2.1 (1.4)	2.6 (1.4)	5.4 (1.4)	-7.1 (1.4)	2 (1.4)	0.9 (1.4)	0 (1.4)

See Notes on Page 3.

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Table E — Validated PCB Results for Surface Sediment Samples Collected in Lake Allegan — Data Received by ARCADIS in December 2009

Sample Name:		K56431 0 - 2 10/28/09 SPI-32	K56432 [K56433] 0 - 2 10/28/09 SPI-33	K56434 0 - 2 10/28/09 SPI-34	K56435 0 - 2 10/28/09 SPI-35	K56436 0 - 2 10/28/09 SPI-36	K56437 0 - 2 10/28/09 SPI-37	K56438 0 - 2 10/28/09 SPI-38	K56439 0 - 2 10/28/09 SPI-39	K56440 0 - 2 10/28/09 SPI-40
PCB Aroclors										
Aroclor-1016	mg/kg	0.080 U	0.16 U [0.15 U]	0.071 U	0.086 U	0.069 U	0.056 U	0.065 U	0.22 U	0.18 U
Aroclor-1221	mg/kg	0.080 U	0.16 U [0.15 U]	0.071 U	0.086 U	0.069 U	0.056 U	0.065 U	0.22 U	0.18 U
Aroclor-1232	mg/kg	0.080 U	0.16 U [0.15 U]	0.071 U	0.15	0.069 U	0.056 U	0.065 U	0.22 U	0.18 U
Aroclor-1242	mg/kg	0.046 J	1.3 [1.5]	0.17	0.086 U	0.061 J	0.052 J	0.81	1.7	1.1
Aroclor-1248	mg/kg	0.080 U	0.16 U [0.15 U]	0.047 J	0.086 U	0.069 U	0.056 U	0.065 U	0.22 U	0.18 U
Aroclor-1254	mg/kg	0.080 U	0.28 [0.30]	0.046 J	0.086 U	0.069 U	0.056 U	0.15	0.27	0.27
Aroclor-1260	mg/kg	0.080 U	0.16 U [0.15 U]	0.071 U	0.086 U	0.069 U	0.056 U	0.065 U	0.22 U	0.18 U
Total PCBs	mg/kg	0.046 J	1.6 [1.8]	0.26 J	0.15	0.061 J	0.052 J	0.96	2.0	1.4
Miscellaneous										
Percent Solids	%	60.6	29.9 [30.5]	68.7	57.8	71.9	82	70.7	23.4	27.8
TOC										
Total Organic Carbon	mg/kg	24500	79800 [71300]	9890	25800	8380	2680 J	6710	62100	74100
Grain Size Analysis										
Gravel	%	0.8	0 [0]	0.9	0	2.1	0.8	5	0	0
Coarse Sand	%	0.4	0.3 [0.3]	7.5	0.8	0.5	2.7	1.4	0.1	0.1
Medium Sand	%	9.9	2.6 [2.3]	26.9	15.7	2.3	21.2	5.5	4.2	3.2
Fine Sand	%	24.5	12.8 [13.5]	53	40	67	70.1	69.7	11.3	16.8
Silt	%	51.9	82.3 [82]	11.1	33.3	21.8	5.2	17.7	75.8	72.8
Clay	%	12.4	2 [1.8]	0.6	10.3	6.4	0	0.6	8.7	7.1
Grain Size Analysis - % passing (particle size, um)										
Sieve, 3 inch	% passing	100 (75000)	100 (75000) [100 (75000)]	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100	100
Sieve, 2 inch	% passing	100 (50000)	100 (50000) [100 (50000)]	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100	100
Sieve, 1.5 inch	% passing	100 (37500)	100 (37500) [100 (37500)]	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100	100
Sieve, 1 inch	% passing	100 (25000)	100 (25000) [100 (25000)]	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100	100
Sieve, 3/4 inch	% passing	100 (19000)	100 (19000) [100 (19000)]	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100	100
Sieve, 3/8 inch	% passing	99.3 (9500)	100 (9500) [100 (9500)]	100 (9500)	100 (9500)	98.3 (9500)	100 (9500)	98.1 (9500)	100	100
Sieve, #4	% passing	99.2 (4750)	100 (4750) [100 (4750)]	99.1 (4750)	100 (4750)	97.9 (4750)	99.2 (4750)	95 (4750)	100	100
Sieve, #10	% passing	98.8 (2000)	99.7 (2000) [99.7 (2000)]	91.7 (2000)	99.2 (2000)	97.5 (2000)	96.5 (2000)	93.5 (2000)	99.9	99.9
Sieve, #20	% passing	95.8 (850)	99.1 (850) [99.5 (850)]	77.3 (850)	92 (850)	96.5 (850)	92.1 (850)	91.2 (850)	99.1	99.4
Sieve, #40	% passing	88.9 (425)	97.1 (425) [97.4 (425)]	64.7 (425)	83.6 (425)	95.2 (425)	75.3 (425)	88 (425)	95.8	96.7
Sieve, #60	% passing	85.1 (250)	94.8 (250) [94.9 (250)]	41.6 (250)	67.2 (250)	87.7 (250)	18 (250)	69.4 (250)	93.7	94.6
Sieve, #80	% passing	81.1 (180)	93.1 (180) [93.1 (180)]	24.1 (180)	57.8 (180)	72.4 (180)	7.2 (180)	47.9 (180)	91.4	91.9
Sieve, #100	% passing	78 (150)	92.1 (150) [92.1 (150)]	18.9 (150)	53.4 (150)	60.5 (150)	6.5 (150)	38.2 (150)	90.5	91
Sieve, #200	% passing	64.3 (75)	84.3 (75) [83.9 (75)]	11.8 (75)	43.5 (75)	28.2 (75)	5.2 (75)	18.3 (75)	84.5	79.9
Hydrometer Reading 1	% passing	32.4 (33)	23.9 (36) [20.1 (36)]	3.7 (37)	22.8 (34)	15.6 (34)	3 (37)	3.5 (37)	69.1	36.1
Hydrometer Reading 2	% passing	28.6 (21)	21.9 (23) [18.2 (23)]	3 (23)	20.5 (22)	12.7 (22)	1.7 (24)	2 (24)	44.1	20.8
Hydrometer Reading 3	% passing	22.4 (12.6)	11.9 (13.4) [9.1 (13.5)]	2.4 (13.5)	13.7 (13)	9.1 (13)	1.1 (13.7)	2 (13.7)	23.3	10.5
Hydrometer Reading 4	% passing	16.2 (9.2)	8 (9.6) [3.6 (9.8)]	1.2 (9.8)	12.6 (9.1)	7.8 (9.1)	0.6 (9.5)	0.6 (9.4)	14.9	7.1
Hydrometer Reading 5	% passing	12.4 (6.6)	2 (7) [1.8 (7)]	0.6 (6.7)	10.3 (6.6)	6.4 (6.7)	0 (6.9)	0.6 (6.9)	8.7	7.1
Hydrometer Reading 6	% passing	7.5 (3.2)	0 (3.3) [0 (3.4)]	0.6 (3.4)	7 (3.3)	3.7 (3.4)	0 (3.3)	-0.7 (3.3)	4.5	2
Hydrometer Reading 7	% passing	3.9 (1.4)	-2 (1.4) [-3.6 (1.4)]	-1.1 (1.4)	2.5 (1.4)	0.7 (1.4)	-0.5 (1.4)	-1.4 (1.4)	2.4	2

See Notes on Page 3.

**Georgia-Pacific LLC
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
Monthly Report #35, January 2010**

Table E — Validated PCB Results for Surface Sediment Samples Collected in Lake Allegan — Data Received by ARCADIS in December 2009

Notes:

J - The compound was positively identified; however, the associated numerical value is an estimated concentration only

U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit

mg/kg - milligram per kilogram

Samples analyzed by TestAmerica Laboratories, Inc.

Duplicate results in brackets.

Georgia-Pacific LLC
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
Monthly Report #36, February 2010

Table F — Validated PCB Results for Core Sediment Samples Collected in Lake Allegan — Data Received by ARCADIS in December 2009

Sample Name:		K16818	K16819	K16820	K16821	K16822	K16823	K16824	K16825	K16826	K16827	K16828	K16829	K16830
Sample Depth (cm):		0 - 1	1 - 2	2 - 3	3 - 4	4 - 5	5 - 6	6 - 7	7 - 8	8 - 9	9 - 10	10 - 12	12 - 14	14 - 16
Date Collected:		05/13/09	05/13/09	05/13/09	05/13/09	05/13/09	05/13/09	05/13/09	05/13/09	05/13/09	05/13/09	05/13/09	05/13/09	05/13/09
Location ID:	Units	SPI-40												
PCB Aroclors														
Aroclor-1016	mg/kg	0.19 U	0.18 U	0.16 U	0.17 U	0.17 UJ	0.18 U	0.17 U	0.14 U	0.14 U	0.14 U	0.15 U	0.29 U	0.29 U
Aroclor-1221	mg/kg	0.19 U	0.18 U	0.16 U	0.17 U	0.17 UJ	0.18 U	0.17 U	0.14 U	0.14 U	0.14 U	0.15 U	0.29 U	0.29 U
Aroclor-1232	mg/kg	0.19 U	0.18 U	0.16 U	0.17 U	0.17 UJ	0.18 U	0.17 U	0.14 U	0.14 U	0.14 U	0.15 U	0.29 U	0.29 U
Aroclor-1242	mg/kg	1.2	0.98	0.98	1.0	0.69 J	0.88	1.6	1.6	1.6	1.8	2.1	2.5	4.5
Aroclor-1248	mg/kg	0.29	0.32	0.29	0.37	0.17 UJ	0.39	0.17 U	0.14 U	0.14 U	0.14 U	0.15 U	0.29 U	0.29 U
Aroclor-1254	mg/kg	0.45	0.39	0.31	0.32	0.17 J	0.27	0.32	0.31	0.22	0.24	0.36	0.34	0.84
Aroclor-1260	mg/kg	0.19 U	0.088 J	0.16 U	0.17 U	0.17 UJ	0.18 U	0.17 U	0.14 U	0.084 J	0.095 J	0.15 U	0.29 U	0.29 U
Total PCBs	mg/kg	1.9	1.8	1.6	1.7	0.86 J	1.5	1.9	1.9	1.9 J	2.1 J	2.5	2.8	5.3
Miscellaneous														
Percent Solids	%	27.1	28.6	31.5	31.1	28.8	28	31	34.8	33.8	33.8	33.3	34	33

Sample Name:		K16831	K16832	K16833	K16834	K16835	K16836	K16837	K16838	K16839	K16840	K16841	K16842
Sample Depth (cm):		16 - 18	18 - 20	20 - 25	25 - 30	30 - 35	35 - 40	40 - 45	45 - 50	50 - 55	55 - 60	60 - 65	65 - 70
Date Collected:		05/13/09	05/13/09	05/13/09	05/13/09	05/13/09	05/13/09	05/13/09	05/13/09	05/13/09	05/13/09	05/13/09	05/13/09
Location ID:	Units	SPI-40											
PCB Aroclors													
Aroclor-1016	mg/kg	0.50 U	0.48 U	0.97 U	1.8 U	1.7 U	3.4 U	3.7 U	5.3 U	5.1 U	1.8 U	0.67 U	0.31 U
Aroclor-1221	mg/kg	0.50 U	0.48 U	0.97 U	1.8 U	1.7 U	3.4 U	3.7 U	5.3 U	5.1 U	1.8 U	0.67 U	0.31 U
Aroclor-1232	mg/kg	0.50 U	0.48 U	0.97 U	1.8 U	1.7 U	3.4 U	3.7 U	5.3 U	5.1 U	1.8 U	0.67 U	0.31 U
Aroclor-1242	mg/kg	6.9	5.7	13	20	26	39	50	58	66 J	19	6.4	2.8
Aroclor-1248	mg/kg	0.50 U	0.48 U	0.97 U	1.8 U	1.7 U	3.4 U	3.7 U	18	5.1 U	1.8 U	0.67 U	0.31 U
Aroclor-1254	mg/kg	0.68	0.69	2.5	1.8 J	5.0	4.5	5.7	5.3 U	9.1	6.6	3.2	0.92
Aroclor-1260	mg/kg	0.32 J	0.48 U	0.97 U	1.8 U	1.7 U	3.4 U	3.7 U	5.3 U	5.1 U	1.8 U	0.67 U	0.31 U
Total PCBs	mg/kg	7.9	6.4	16	22	31	44	56	76	75 J	26	9.6	3.7
Miscellaneous													
Percent Solids	%	30.2	30.7	25.5	27.6	28.2	29.3	27	28.3	28	29.3	37.9	34.2

Notes:

J - The compound was positively identified; however, the associated numerical value is an estimated concentration only.

U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

UJ - The compound was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.

mg/kg - milligram per kilogram

Samples analyzed by TestAmerica Laboratories, Inc.

Duplicate results in brackets.

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Supplemental Remedial Investigations/Feasibility Studies
Monthly Report #36, February 2010

Table G — Validated PCB Results for Sediment Samples Collected in October and November 2009 - Hot Spot Assessment — Data Received by ARCADIS in December 2009

Sample Name: Sample Depth(in): Date Collected: Location ID:	Units	K56441 0 - 2 10/29/09 KRT4-C	K56442 2 - 6 10/29/09 KRT4-C	K56443 6 - 12 10/29/09 KRT4-C	K56444 12 - 18 10/29/09 KRT4-C	K56445 18 - 24 10/29/09 KRT4-C	K56446 24 - 28 10/29/09 KRT4-C	K56447 28 - 32 10/29/09 KRT4-C	K56448 32 - 36 10/29/09 KRT4-C	K56449 36 - 46 10/29/09 KRT4-C	K56450 0 - 2 10/29/09 KRT4-E	K56451 2 - 4 10/29/09 KRT4-E	K56452 4 - 6 10/29/09 KRT4-E	K56453 6 - 12 10/29/09 KRT4-E	K56454 [K56458] 12 - 24 10/29/09 KRT4-E	K56455 24 - 36 10/29/09 KRT4-E
PCB Aroclors																
Aroclor-1016	mg/kg	0.078 U	0.071 U	0.15 U	1.6 U	0.69 U	0.16 U	0.058 U	0.083 U	0.097 U	0.087 U	1.0 U	14 U	15 U	6.6 U [6.5 U]	1.2 U
Aroclor-1221	mg/kg	0.078 U	0.071 U	0.15 U	1.6 U	0.69 U	0.16 U	0.058 U	0.083 U	0.097 U	0.087 U	1.0 U	14 U	15 U	6.6 U [6.5 U]	1.2 U
Aroclor-1232	mg/kg	0.078 U	0.071 U	0.15 U	1.6 U	0.69 U	0.16 U	0.058 U	0.55	0.097 U	0.087 U	1.0 U	14 U	15 U	6.6 U [6.5 U]	1.2 U
Aroclor-1242	mg/kg	1.0	1.0	2.0	15	6.2 J	0.98	0.10	0.083 U	0.097 U	0.81	12	140	130	79 [82]	15 J
Aroclor-1248	mg/kg	0.078 U	0.071 U	0.15 U	1.6 U	0.69 U	0.16 U	0.058 U	0.083 U	0.097 U	0.087 U	1.0 U	14 U	15 U	6.6 U [6.5 U]	1.2 U
Aroclor-1254	mg/kg	0.39	0.33	0.46	1.5 J	5.6 J	0.89	0.058 U	0.66	0.097 U	0.48	1.0	14 U	12 J	43 [55]	9.8 J
Aroclor-1260	mg/kg	0.092	0.062 J	0.15 U	1.3 J	1.0 J	0.16 U	0.058 U	0.17	0.44	0.087 U	1.0 U	7.9 J	15 U	6.6 U [6.5 U]	1.2 U
Total PCBs	mg/kg	1.5	1.4	2.5	18 J	13 J	1.9	0.10	1.4	0.44	1.3	13	150	140	120 [140]	25 J
Miscellaneous																
Percent Solids	%	61.9	69.6	67.9	66.3	38	62.9	84.6	54.9	50.7	56.6	52.3	35.3	34.2	35 [36.5]	40.2
TOC																
Total Organic Carbon	mg/kg	11500 J	11600	9740	39200	109000 J	59900	4700 J	62700	64300	35800 J	34900	86100	81200	81600 [92500]	97000
Grain Size Analysis																
Gravel	%	0	0.5	0.5	0	0	0	0.5	1.4	12.7	0.6	1.4	0.4	0.8	0 [0]	0
Coarse Sand	%	1	1.3	1.3	0.7	0.2	5.7	4.3	5.8	10.7	2.8	2.7	1.5	0.2	0 [0]	0.1
Medium Sand	%	6.5	7.8	3.7	4.1	11	30.5	61.2	14	21.2	4.3	4.5	3.3	1	0.3 [0.7]	1.2
Fine Sand	%	81.6	80.2	86.3	84.4	30.9	53	31.2	43.2	35.6	83.7	74.5	39.3	20.3	4.6 [4.6]	15.2
Silt	%	7.3	9.2	6.4	8.1	41.3	5.1	2	22.1	10.9	7.9	12.7	31.4	51	55.5 [58]	56.9
Clay	%	3.6	1	1.9	2.7	16.7	5.7	0.7	13.5	9	0.7	4.2	24.1	26.6	39.6 [36.8]	26.7
Grain Size Analysis - % passing (particle size, um)																
Sieve, 3 inch	% passing	100	100	100	100	100	100	100	100	100	100	100	100	100	100 [100]	100
Sieve, 2 inch	% passing	100	100	100	100	100	100	100	100	100	100	100	100	100	100 [100]	100
Sieve, 1.5 inch	% passing	100	100	100	100	100	100	100	100	100	100	100	100	100	100 [100]	100
Sieve, 1 inch	% passing	100	100	100	100	100	100	100	100	100	100	100	100	100	100 [100]	100
Sieve, 3/4 inch	% passing	100	100	100	100	100	100	100	100	100	100	100	100	100	100 [100]	100
Sieve, 3/8 inch	% passing	100	100	100	100	100	100	100	100	96.6	99.9	99.4	100	100	100 [100]	100
Sieve, #4	% passing	100	99.5	99.5	100	100	100	99.5	98.6	87.3	99.4	98.6	99.6	99.2	100 [100]	100
Sieve, #10	% passing	99	98.2	98.2	99.3	99.8	94.3	95.2	92.8	76.6	96.6	95.9	98.1	99	100 [100]	99.9
Sieve, #20	% passing	96.5	95.6	96.6	97.7	98	84	77.4	84.6	65.2	94.9	94.1	96.5	98.9	99.8 [99.7]	99.6
Sieve, #40	% passing	92.5	90.4	94.5	95.2	88.8	63.8	33.9	78.8	55.4	92.3	91.3	94.8	98	99.7 [99.3]	98.7
Sieve, #60	% passing	83	75.7	82.4	81.2	82.3	43.1	5.7	65.7	43.4	87	85	91.5	95.4	99.4 [98.9]	95.9
Sieve, #80	% passing	52.5	45	49.6	59.6	74.4	27.9	3.4	52.8	30.9	57.3	59	79	89.2	98.8 [98.1]	92.4
Sieve, #100	% passing	39.5	32	35.6	49.8	72.2	23.1	3.3	49.5	27.9	41.9	45.3	73.2	87.2	98.5 [97.9]	91.3
Sieve, #200	% passing	10.9	10.2	8.2	10.8	57.9	10.7	2.7	35.6	19.9	8.6	16.9	55.5	77.6	95.1 [94.8]	83.6
Hydrometer Reading 1	% passing	9.8	1.9	4.5	4	29.6	10.1	1.9	22.4	19	2.8	8.1	51.9	50	70.5 [63.4]	50.6
Hydrometer Reading 2	% passing	6.7	1.9	3.6	4	23.1	9	1.3	19.4	16.5	2.8	6.8	46.3	43	60.2 [56.1]	45.8
Hydrometer Reading 3	% passing	6.7	1.9	3.6	4	23.1	7.9	1.3	16.5	14	2.8	5.5	35.2	38.3	55.1 [51.3]	38.6
Hydrometer Reading 4	% passing	3.6	1	2.8	2.7	19.9	6.8	1.3	15	11.5	2.8	4.2	29.6	31.3	47.3 [46.4]	31.4
Hydrometer Reading 5	% passing	3.6	1	1.9	2.7	16.7	5.7	0.7	13.5	9	0.7	4.2	24.1	26.6	39.6 [36.8]	26.7
Hydrometer Reading 6	% passing	0.5	0.1	1	1.5	10.2	3.5	0.1	9.3	6.7	-1.4	1.8	18.5	17.2	26.2 [24.6]	19.5
Hydrometer Reading 7	% passing	0.5	-0.7	0	0	3.8	2.2	0.1	4.7	2.7	-1.8	0.2	12	9.8	15.9 [14.9]	12.3

See Notes on Page 5.

Georgia-Pacific LLC
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
Monthly Report #36, February 2010

Table G — Validated PCB Results for Sediment Samples Collected in October and November 2009 - Hot Spot Assessment — Data Received by ARCADIS in December 2009

Sample Name:	K56456	K56457	K56459	K56460	K56461	K56462 [K56465]	K56463	K56464	K56466	K56467	K56468	
Sample Depth(in):	36 - 41	41 - 46	0 - 2	2 - 6	6 - 12	12 - 24	24 - 27	27 - 30	0 - 2	2 - 6	6 - 12	
Date Collected:	10/29/09	10/29/09	10/29/09	10/29/09	10/29/09	10/29/09	10/29/09	10/29/09	10/29/09	10/29/09	10/29/09	
Location ID:	Units	KRT4-E	KRT4-E	KRT4-F	KRT4-F	KRT4-F	KRT4-F	KRT4-F	KRT4-D	KRT4-D	KRT4-D	
PCB Aroclors												
Aroclor-1016	mg/kg	0.090 UJ	0.066 U	0.060 U	0.058 U	0.060 U	0.73 U [0.31 UJ]	0.12 U	1.1 U	0.065 U	0.062 U	0.059 U
Aroclor-1221	mg/kg	0.090 UJ	0.066 U	0.060 U	0.058 U	0.060 U	0.73 U [0.31 UJ]	0.12 U	1.1 U	0.065 U	0.062 U	0.059 U
Aroclor-1232	mg/kg	0.090 UJ	0.066 U	0.060 U	0.058 U	0.060 U	0.73 U [0.31 UJ]	0.12 U	1.1 U	0.065 U	0.062 U	0.059 U
Aroclor-1242	mg/kg	0.24 J	0.057 J	0.068	0.096	0.17	3.9 J [1.9]	0.99	5.9	0.064 J	0.086	0.13
Aroclor-1248	mg/kg	0.090 UJ	0.066 U	0.060 U	0.058 U	0.10	0.73 U [0.31 UJ]	0.33	1.1 U	0.065 U	0.062 U	0.059 U
Aroclor-1254	mg/kg	0.46 J	0.10	0.039 J	0.037 J	0.13	2.5 J [0.43 J]	0.68	8.2	0.037 J	0.049 J	0.038 J
Aroclor-1260	mg/kg	0.090 UJ	0.066 U	0.060 U	0.058 U	0.060 U	0.73 U [0.31 UJ]	0.12 U	1.1 U	0.065 U	0.062 U	0.059 U
Total PCBs	mg/kg	0.70 J	0.16 J	0.11 J	0.13 J	0.40	6.4 J [2.3]	2.0	14	0.10 J	0.14 J	0.17
Miscellaneous												
Percent Solids	%	54.1	73.9	81.8	82.9	84.2	71.2 [79.9]	80.1	45	77.2	79.9	84.6
TOC												
Total Organic Carbon	mg/kg	74800	16000 J	1830	2300 J	13500 J	17500 J [8970 J]	14700	96800	3160	1700 J	1770 J
Grain Size Analysis												
Gravel	%	0.8	2.3	1.8	0	18.2	9.4 [5.9]	5.8	2	0	3.6	7
Coarse Sand	%	0.5	7.9	0.4	0.2	12.9	14 [13]	7.9	4.6	0.2	3	9.7
Medium Sand	%	3.5	53.9	21.1	30.8	39.2	43.2 [48.6]	57.2	13.7	31	32.3	47.8
Fine Sand	%	47.5	29.6	74.9	67.6	28.1	30 [29.8]	26.2	15.1	67	60.6	34.8
Silt	%	32.1	4.6	1.7	1.3	1.5	2.2 [2.1]	1.5	43.2	2.5	0.5	0.6
Clay	%	15.6	1.8	0.1	0.1	0.1	1.3 [0.7]	1.4	21.5	-0.7	0.1	0.1
Grain Size Analysis - % passing (particle size, um)												
Sieve, 3 inch	% passing	100	100	100 (75000)	100 (75000)	100 (75000)	100 (75000) [100 (75000)]	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)
Sieve, 2 inch	% passing	100	100	100 (50000)	100 (50000)	100 (50000)	100 (50000) [100 (50000)]	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)
Sieve, 1.5 inch	% passing	100	100	100 (37500)	100 (37500)	100 (37500)	100 (37500) [100 (37500)]	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)
Sieve, 1 inch	% passing	100	100	100 (25000)	100 (25000)	100 (25000)	100 (25000) [100 (25000)]	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)
Sieve, 3/4 inch	% passing	100	100	100 (19000)	100 (19000)	100 (19000)	100 (19000) [100 (19000)]	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)
Sieve, 3/8 inch	% passing	100	99	98.9 (9500)	100 (9500)	89.5 (9500)	99.2 (9500) [97.9 (9500)]	98.5 (9500)	100 (9500)	99 (9500)	97.3 (9500)	
Sieve, #4	% passing	99.2	97.7	98.2 (4750)	100 (4750)	81.8 (4750)	90.6 (4750) [94.1 (4750)]	94.2 (4750)	98 (4750)	100 (4750)	96.4 (4750)	93 (4750)
Sieve, #10	% passing	98.6	89.8	97.8 (2000)	99.8 (2000)	68.9 (2000)	76.6 (2000) [81.1 (2000)]	86.3 (2000)	93.4 (2000)	99.8 (2000)	93.4 (2000)	83.2 (2000)
Sieve, #20	% passing	98.2	73.7	95.5 (850)	96.9 (850)	54.5 (850)	58 (850) [61.2 (850)]	63.2 (850)	86.6 (850)	97.4 (850)	88 (850)	68 (850)
Sieve, #40	% passing	95.2	35.9	76.7 (425)	69 (425)	29.7 (425)	33.5 (425) [32.6 (425)]	29.1 (425)	79.8 (425)	68.9 (425)	61.2 (425)	35.4 (425)
Sieve, #60	% passing	86.6	12.3	17.8 (250)	6.3 (250)	6.7 (250)	12.7 (250) [8.9 (250)]	5.8 (250)	74.5 (250)	9.9 (250)	9.9 (250)	2.6 (250)
Sieve, #80	% passing	69.6	8.3	5.4 (180)	1.6 (180)	3.3 (180)	7.7 (180) [5.3 (180)]	4.6 (180)	72.3 (180)	2.2 (180)	1.5 (180)	0.7 (180)
Sieve, #100	% passing	64.2	7.8	3.5 (150)	1.5 (150)	2.6 (150)	5.9 (150) [4.3 (150)]	4.2 (150)	71.1 (150)	2 (150)	0.9 (150)	0.7 (150)
Sieve, #200	% passing	47.7	6.3	1.8 (75)	1.4 (75)	1.6 (75)	3.5 (75) [2.8 (75)]	2.9 (75)	64.6 (75)	1.8 (75)	0.6 (75)	0.7 (75)
Hydrometer Reading 1	% passing	28.1	4	0.8 (37)	0.6 (37)	1.1 (37)	3 (36) [1.9 (37)]	2.7 (37)	35.6 (35)	0.1 (37)	0.6 (37)	0.5 (37)
Hydrometer Reading 2	% passing	25.3	3.4	0.8 (23)	0.6 (23)	1.1 (23)	2.4 (23) [1.9 (23)]	2 (23)	33.2 (22)	0.1 (24)	0.6 (23)	0.5 (23)
Hydrometer Reading 3	% passing	21.2	2.3	0.8 (13.6)	0.6 (13.6)	1.1 (13.5)	1.8 (13.4) [1.3 (13.5)]	1.4 (13.5)	28.5 (12.9)	0.1 (13.6)	0.1 (13.6)	0.1 (13.6)
Hydrometer Reading 4	% passing	15.6	1.8	0.8 (9.6)	0.1 (9.6)	0.1 (9.8)	1.3 (9.7) [0.7 (9.4)]	1.4 (9.4)	26.2 (9)	0.1 (9.3)	0.1 (9.6)	0.1 (9.6)
Hydrometer Reading 5	% passing	15.6	1.8	0.1 (6.9)	0.1 (6.9)	0.1 (6.9)	1.3 (6.6) [0.7 (6.8)]	1.4 (6.7)	21.5 (6.6)	-0.7 (6.8)	0.1 (6.6)	0.1 (7)
Hydrometer Reading 6	% passing	10	1.2	0.1 (3.3)	0.1 (3.3)	0.1 (3.3)	0.7 (3.3) [0.7 (3.2)]	0.8 (3.4)	16.8 (3.3)	-0.7 (3.3)	-0.4 (3.3)	0.1 (3.4)
Hydrometer Reading 7	% passing	5.8	0.6	0.1 (1.4)	0.1 (1.4)	-0.4 (1.4)	0.7 (1.4) [0 (1.4)]	0.1 (1.4)	9.8 (1.4)	-0.7 (1.4)	-0.4 (1.4)	-0.4 (1.4)

See Notes on Page 5.

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Table G — Validated PCB Results for Sediment Samples Collected in October and November 2009 - Hot Spot Assessment — Data Received by ARCADIS in December 2009

Sample Name:	K56469	K56470	K56548	K56549	K56550	K56551	K56552	K56553	K56554	K56555	K56556
Sample Depth(in):	12 - 15	15 - 21	0 - 2	2 - 6	6 - 12	12 - 24	24 - 36	36 - 43	0 - 2	2 - 6	6 - 12
Date Collected:	10/29/09	10/29/09	11/05/09	11/05/09	11/05/09	11/05/09	11/05/09	11/05/09	11/05/09	11/05/09	11/05/09
Location ID:	KRT4-D	KRT4-D	KPT19-3	KPT19-3	KPT19-3	KPT19-3	KPT19-3	KPT19-3	KPT19-D	KPT19-D	KPT19-D
Units											
PCB Aroclors											
Aroclor-1016	mg/kg	0.056 U	0.061 U	0.099 U	0.070 U	0.067 U	0.057 U	0.058 U	0.37 U	0.068 U	0.059 U
Aroclor-1221	mg/kg	0.056 U	0.061 U	0.099 U	0.070 U	0.067 U	0.057 U	0.058 U	0.37 U	0.068 U	0.059 U
Aroclor-1232	mg/kg	0.056 U	0.061 U	0.099 U	0.070 U	0.067 U	0.057 U	0.058 U	0.37 U	0.068 U	0.059 U
Aroclor-1242	mg/kg	0.23	0.061 U	0.47	0.12	0.18	0.055 J	0.14	4.1	0.11	0.12
Aroclor-1248	mg/kg	0.065	0.061 U	0.099 U	0.070 U	0.067 U	0.057 U	0.058 U	0.37 U	0.068 U	0.059 U
Aroclor-1254	mg/kg	0.079	0.061 U	0.70	0.062 J	0.10	0.057 U	0.12	1.9	0.078	0.054 J
Aroclor-1260	mg/kg	0.056 U	0.061 U	0.099 U	0.070 U	0.067 U	0.057 U	0.058 U	0.37 U	0.068 U	0.059 U
Total PCBs	mg/kg	0.37	0.061 U	1.2	0.18 J	0.28	0.055 J	0.26	6.0	0.19	0.17 J
Miscellaneous											
Percent Solids	%	84.6	80.1	47.1	69.5	73.2	83.3	82.6	67	70	81.8
TOC											
Total Organic Carbon	mg/kg	23100 J	4880 J	46200 J	3890	2420 J	931	605 U	13500 J	8370	611 U
Grain Size Analysis											
Gravel	%	0.5	1.7	0	0	2.5	0	0.2	4.2	0.7	0.4
Coarse Sand	%	8.4	10.3	1.4	0.7	1.4	0.7	0.8	1.9	1.8	0.9
Medium Sand	%	70.7	27.9	3.4	3.5	25.9	24	22.6	10.2	29.4	31.1
Fine Sand	%	17.9	54.8	90.5	93.8	68	74.4	76.6	78.6	61.1	66.6
Silt	%	2.3	4.3	20	1.1	1.9	0.3	0.3	4.1	7.8	0.9
Clay	%	0.1	1	-15.3	0.9	0.2	0.6	-0.4	0.9	-0.8	0.2
Grain Size Analysis - % passing (particle size, um)											
Sieve, 3 inch	% passing	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)
Sieve, 2 inch	% passing	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)
Sieve, 1.5 inch	% passing	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)
Sieve, 1 inch	% passing	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)
Sieve, 3/4 inch	% passing	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)
Sieve, 3/8 inch	% passing	100 (9500)	99.7 (9500)	100 (9500)	100 (9500)	100 (9500)	100 (9500)	100 (9500)	96.9 (9500)	100 (9500)	100 (9500)
Sieve, #4	% passing	99.5 (4750)	98.3 (4750)	100 (4750)	100 (4750)	97.5 (4750)	100 (4750)	99.8 (4750)	95.8 (4750)	99.3 (4750)	99.6 (4750)
Sieve, #10	% passing	91 (2000)	88.1 (2000)	98.6 (2000)	99.3 (2000)	96.1 (2000)	99.3 (2000)	99 (2000)	93.9 (2000)	97.5 (2000)	98.7 (2000)
Sieve, #20	% passing	52.2 (850)	81.1 (850)	98.3 (850)	98.7 (850)	90.7 (850)	95.4 (850)	94.8 (850)	90.4 (850)	89.1 (850)	93 (850)
Sieve, #40	% passing	20.3 (425)	60.2 (425)	95.1 (425)	95.8 (425)	70.2 (425)	75.3 (425)	76.4 (425)	83.6 (425)	68.1 (425)	67.6 (425)
Sieve, #60	% passing	5 (250)	20.7 (250)	92 (250)	84.3 (250)	41.7 (250)	24.7 (250)	25.3 (250)	66.3 (250)	43.5 (250)	17.8 (250)
Sieve, #80	% passing	3.5 (180)	9.7 (180)	61.2 (180)	37.4 (180)	15.1 (180)	7 (180)	4.6 (180)	40.5 (180)	25.8 (180)	4.1 (180)
Sieve, #100	% passing	3.2 (150)	7.8 (150)	43.5 (150)	22.2 (150)	8.8 (150)	3.7 (150)	1.4 (150)	25.2 (150)	16.6 (150)	2.3 (150)
Sieve, #200	% passing	2.4 (75)	5.3 (75)	4.7 (75)	2 (75)	2.1 (75)	0.9 (75)	-0.1 (75)	5 (75)	7 (75)	1 (75)
Hydrometer Reading 1	% passing	0.7 (37)	3.4 (36)	-11.5 (37)	1.7 (37)	0.8 (37)	0.6 (37)	-0.4 (38)	4.2 (37)	1.3 (37)	0.7 (37)
Hydrometer Reading 2	% passing	0.7 (23)	2.9 (23)	-11.5 (24)	1.7 (23)	0.8 (24)	0.6 (24)	-0.4 (24)	2.6 (23)	1.3 (24)	0.7 (24)
Hydrometer Reading 3	% passing	0.7 (13.6)	2.3 (13.4)	-11.5 (13.6)	0.9 (13.6)	0.8 (13.6)	0.6 (13.7)	-0.4 (13.8)	1.8 (13.5)	0.3 (13.7)	0.7 (13.6)
Hydrometer Reading 4	% passing	0.7 (9.6)	1.5 (9.3)	-15.3 (9.7)	0.9 (9.6)	0.2 (9.5)	0.6 (9.7)	-0.4 (9.8)	0.9 (9.8)	-0.8 (9.9)	0.2 (9.5)
Hydrometer Reading 5	% passing	0.1 (6.6)	1 (6.9)	-15.3 (7)	0.9 (6.6)	0.2 (7)	0.6 (6.9)	-0.4 (7)	0.9 (7)	-0.8 (6.7)	0.2 (6.8)
Hydrometer Reading 6	% passing	0.1 (3.4)	0.5 (3.4)	-15.3 (3.4)	0.9 (3.4)	0.2 (3.4)	0.1 (3.3)	-0.4 (3.3)	0.1 (3.4)	-0.8 (3.4)	0.1 (3.4)
Hydrometer Reading 7	% passing	0.1 (1.4)	0.5 (1.4)	-15.3 (1.4)	0.9 (1.4)	0.2 (1.4)	0.1 (1.4)	-0.4 (1.4)	0.1 (1.4)	-0.8 (1.4)	0.1 (1.4)

See Notes on Page 5.

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Table G — Validated PCB Results for Sediment Samples Collected in October and November 2009 - Hot Spot Assessment — Data Received by ARCADIS in December 2009

Sample Name:		K56557	K56558 [K56559]	K56560	K56561	K56562	K56563	K56564	K56565	K56566	K56567
Sample Depth(in):		12 - 24	24 - 34	0 - 2	2 - 6	6 - 12	12 - 24	24 - 30	30 - 36	36 - 40	0 - 2
Date Collected:		11/05/09	11/05/09	11/05/09	11/05/09	11/05/09	11/05/09	11/05/09	11/05/09	11/05/09	11/05/09
Location ID:	Units	KPT19-D	KPT19-D	KPT19-H	KPT19-C						
PCB Aroclors											
Aroclor-1016	mg/kg	0.065 U	3.9 U [6.6 U]	0.089 U	0.071 U	0.071 U	0.059 U	0.18 U	7.3 U	4.4 U	0.056 U
Aroclor-1221	mg/kg	0.065 U	3.9 U [6.6 U]	0.089 U	0.071 U	0.071 U	0.059 U	0.18 U	7.3 U	4.4 U	0.056 U
Aroclor-1232	mg/kg	0.065 U	3.9 U [6.6 U]	0.089 U	0.071 U	0.071 U	0.23	0.18 U	7.3 U	4.4 U	0.056 U
Aroclor-1242	mg/kg	0.21	49 [60]	0.18	0.11	0.13	0.059 U	1.3	66	44	0.090
Aroclor-1248	mg/kg	0.10	3.9 U [6.6 U]	0.089 U	0.071 U	0.068 J	0.059 U	0.58	7.3 U	4.4 U	0.056 U
Aroclor-1254	mg/kg	0.21	9.6 [12]	0.10	0.057 J	0.071 J	0.092	0.88	14	4.4 U	0.068
Aroclor-1260	mg/kg	0.065 U	3.9 U [6.6 U]	0.089 U	0.071 U	0.071 U	0.059 U	0.18 U	7.3 U	4.4 U	0.056 U
Total PCBs	mg/kg	0.52	59 [72]	0.28	0.17 J	0.27 J	0.32	2.8	80	44	0.16
Miscellaneous											
Percent Solids	%	74.6	38.1 [36.7]	56.4	64.5	70.3	79.6	78.5	33.8	33.4	86.4
TOC											
Total Organic Carbon	mg/kg	4860 J	83800 [88400]	28200	8320	15300 J	1240	2800	85200	91600	1340 J
Grain Size Analysis											
Gravel	%	1.1	0 [0]	0	0	0.6	0.3	1.4	0	0	10.2
Coarse Sand	%	1	0.1 [0.1]	0.7	0.8	1.1	2.1	2.5	0.1	0	28.1
Medium Sand	%	18.8	1.4 [1.1]	2.5	4.3	11.2	30.4	25.7	1.5	1.1	39.1
Fine Sand	%	75.5	18.7 [21.4]	84.9	88	82.9	64	67.1	31.5	13.7	21.1
Silt	%	2.9	56.8 [57.5]	15.7	5.8	3.9	3	3.1	42.5	61.6	1.9
Clay	%	0.7	22.9 [19.9]	-3.9	1.1	0.2	0.2	0.2	24.4	23.5	-0.4
Grain Size Analysis - % passing (particle size, um)											
Sieve, 3 inch	% passing	100 (75000)	100 (75000) [100 (75000)]	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)
Sieve, 2 inch	% passing	100 (50000)	100 (50000) [100 (50000)]	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)
Sieve, 1.5 inch	% passing	100 (37500)	100 (37500) [100 (37500)]	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)
Sieve, 1 inch	% passing	100 (25000)	100 (25000) [100 (25000)]	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)
Sieve, 3/4 inch	% passing	100 (19000)	100 (19000) [100 (19000)]	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)
Sieve, 3/8 inch	% passing	100 (9500)	100 (9500) [100 (9500)]	100 (9500)	100 (9500)	100 (9500)	100 (9500)	100 (9500)	100 (9500)	100 (9500)	99.3 (9500)
Sieve, #4	% passing	98.9 (4750)	100 (4750) [100 (4750)]	100 (4750)	100 (4750)	99.4 (4750)	99.7 (4750)	98.6 (4750)	100 (4750)	100 (4750)	89.8 (4750)
Sieve, #10	% passing	97.9 (2000)	99.9 (2000) [99.9 (2000)]	99.3 (2000)	99.2 (2000)	98.3 (2000)	97.5 (2000)	96.1 (2000)	99.9 (2000)	100 (2000)	61.7 (2000)
Sieve, #20	% passing	93.2 (850)	99.8 (850) [99.8 (850)]	98.6 (850)	98 (850)	95.5 (850)	89.3 (850)	87.9 (850)	99.6 (850)	99.8 (850)	39.1 (850)
Sieve, #40	% passing	79 (425)	98.5 (425) [98.8 (425)]	96.8 (425)	94.9 (425)	87.1 (425)	67.2 (425)	70.4 (425)	98.3 (425)	98.8 (425)	22.6 (425)
Sieve, #60	% passing	39.4 (250)	96.6 (250) [97.1 (250)]	90 (250)	85.1 (250)	71.5 (250)	28.1 (250)	35 (250)	95.7 (250)	97.4 (250)	7.1 (250)
Sieve, #80	% passing	15 (180)	93.1 (180) [92.8 (180)]	64.3 (180)	54.6 (180)	41.9 (180)	11.3 (180)	16.1 (180)	89.3 (180)	94.9 (180)	2.9 (180)
Sieve, #100	% passing	9.1 (150)	90.6 (150) [89.5 (150)]	47.1 (150)	34.2 (150)	24.4 (150)	7.2 (150)	10.2 (150)	84.5 (150)	93.2 (150)	2.1 (150)
Sieve, #200	% passing	3.5 (75)	79.7 (75) [77.4 (75)]	11.8 (75)	6.9 (75)	4.2 (75)	3.2 (75)	3.3 (75)	66.9 (75)	85.1 (75)	1.5 (75)
Hydrometer Reading 1	% passing	1.8 (37)	51.2 (33) [44.5 (33)]	1.9 (37)	3.4 (37)	2.5 (37)	0.8 (37)	1.3 (37)	50.4 (33)	46.7 (33)	0.3 (37)
Hydrometer Reading 2	% passing	1.8 (23)	35 (22) [30.4 (22)]	1.9 (24)	2.6 (23)	2.5 (23)	0.3 (23)	1.3 (23)	40.6 (21)	35.3 (21)	0.3 (23)
Hydrometer Reading 3	% passing	0.7 (13.7)	31 (12.7) [26.9 (12.7)]	1.9 (13.7)	1.8 (13.5)	1.7 (13.5)	0.3 (13.5)	0.8 (13.4)	36.3 (12.5)	31.1 (12.6)	0.2 (13.6)
Hydrometer Reading 4	% passing	0.7 (9.5)	26.9 (8.8) [23.4 (9.1)]	-3.9 (9.7)	1.1 (9.6)	1 (9.5)	0.2 (9.6)	0.2 (9.6)	30.3 (9.1)	27.3 (9.2)	0.2 (9.5)
Hydrometer Reading 5	% passing	0.7 (6.9)	22.9 (6.5) [19.9 (6.3)]	-3.9 (7)	1.1 (6.6)	0.2 (7)	0.2 (6.9)	0.2 (6.9)	24.4 (6.5)	23.5 (6.3)	-0.4 (6.8)
Hydrometer Reading 6	% passing	0.1 (3.3)	14.5 (3.2) [12.6 (3.2)]	-4.8 (3.4)	0.9 (3.4)	0.1 (3.5)	0.2 (3.3)	0.2 (3.3)	18.5 (3.2)	17.8 (3.2)	-0.4 (3.4)
Hydrometer Reading 7	% passing	0.1 (1.4)	10.4 (1.4) [9.1 (1.4)]	-4.8 (1.4)	0.9 (1.4)	0.1 (1.4)	0.2 (1.4)	0.2 (1.4)	12.5 (1.4)	12.1 (1.4)	-0.4 (1.4)

See Notes on Page 5.

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Table G — Validated PCB Results for Sediment Samples Collected in October and November 2009 - Hot Spot Assessment — Data Received by ARCADIS in

Notes:

J - The compound was positively identified; however, the associated numerical value is an estimated concentration only
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit
JJ - The compound was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection
mg/kg - milligram per kilogram.
Samples analyzed by TestAmerica Laboratories, Inc.
Duplicate results in brackets.